s/n: 09/939,422 date: 7-12-04

	(feedback with coil) and (((micro\$2mirror or ((micro adj electr\$4 adj		
_	mechanic\$4) same (mirror or reflect\$5)) or (digital adj micro\$4 adj		7/10/01 10
7	mirror) or DMD)) and (electr\$5magnet\$5))	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	(micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) same (mirror or		
6534	reflect\$5)) or (digital adj micro\$4 adj mirror) or DMD)	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) same (mirror or		
	reflect\$5)) or (digital adj micro\$4 adj mirror) or DMD)) and		
1166	(electr\$5magnet\$5)	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	(mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
328735	(digital adj micro\$4 adj mirror) or DMD)	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	(micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj		
9536	micro\$4 adj mirror) or DMD)	USPAT; US-PGPUB; IBM TDB	7/10/04 13
	coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4	· · -	
1654	adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	feedback with (excitation adj coil)	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	feedback with coil	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	((359/239).CCLS.) and (feedback with coil)	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	(feedback with (excitation adj coil)) and mirror	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	(359/239).CCLS.	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	(feedback with (excitation adj coil)) and magnte\$5	USPAT; US-PGPUB; IBM_TDB	7/10/04 13
	feedback same angle same deflection same coil	USPAT; US-PGPUB; IBM_TDB	3/19/04 15
317	feedback same angle same deflection	USPAT; US-PGPUB; IBM_TDB	3/19/04 15
	(feedback same angle same deflection) and (mirror or micro\$2mirror or		
	(micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or		0/40/04 45
120	DMD)	USPAT; US-PGPUB; IBM_TDB	3/19/04 15
	(feedback same angle same deflection) and (micro\$2mirror or (micro		
40		LICEAT: LIC DODLID: IDM TDD	3/19/04 15
12	adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)	USPAT, US-PGPUB, IBM_TDB	3/19/04 15
	((feedback same angle same deflection) and (mirror or micro\$2mirror		
	or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror)		0/40/04 45
	or DMD)) not 359/\$.ccls.	USPAT; US-PGPUB; IBM_TDB	3/19/04 15
	((338/47).CCLS.) and torsion and angle	USPAT; US-PGPUB; IBM_TDB	3/19/04 15
	("5648618").PN.	USPAT; US-PGPUB; IBM_TDB	3/19/04 15
	(338/47).CCLS.	USPAT; US-PGPUB; IBM_TDB	3/19/04 15
	6392220.URPN.	USPAT	3/19/04 11
	5648618.URPN.	USPAT	3/19/04 11
	("6580846").PN.	USPAT; US-PGPUB; IBM_TDB	
	("6044705").P N .	USPAT; US-PGPUB; IBM_TDB	3/19/04 10
5	("4365863" "5524153" "6097858" "6210401" "6344912").PN.	USPAT	3/19/04 10
0	6580846.URPN.	USPAT	3/19/04 10
30	(magnet\$5 adj actuator) and micromirror	USPAT; US-PGPUB; IBM_TDB	3/19/04 10
4	6181460.URPN.	USPAT	3/19/04 10
	(("4479388") or ("5283491") or ("5606447") or ("5644177") or		
	("5867302") or ("6028689") or ("6094293") or ("6300733") or		
10	("6369400") or ("6483962")).PN.	USPAT; US-PGPUB; IBM_TDB	3/19/04 10
	("5778513").PN.	USPAT; US-PGPUB; IBM_TDB	3/19/04 10
	6369400.URPN.	USPAT	3/19/04 10
	6313905.PN.	USPAT	3/19/04 10
	(array near2 mirror) and gimbal and coils and magnets	USPAT; US-PGPUB; IBM_TDB	3/19/04 10
	5969465.URPN.	USPAT	3/9/04 15
	5543956.URPN.	USPAT	3/9/04 15
	5107366.URPN.	USPAT	3/9/04 15
′	electromagnetic same magnet same (mirror or micro\$2mirror or (micro		0/0/04 10
	adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD		
400	or pixel)	USPAT; US-PGPUB; IBM TDB	3/9/04 15
400	or pinory	33.7.1, 33 1 31 35, IBM_IDB	3/3/04 13

•.			
	(((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or		
	(345/55,85,108,111)).CCLS.) and (electromagnetic same magnet same		
	(mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
64	(digital adj micro\$4 adj mirror) or DMD or pixel))	USPAT; US-PGPUB; IBM TDB	3/9/04 15
		·	
	((((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or		
	(345/55,85,108,111)).CCLS.) and (electromagnetic same magnet same		
	(mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
61	(digital adj micro\$4 adj mirror) or DMD or pixel))) and coil\$3	USPAT; US-PGPUB; IBM_TDB	3/9/04 15
	(mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or	· -	
	(digital adj micro\$4 adj mirror) or DMD or pixel)	USPAT; US-PGPUB; IBM TDB	3/9/04 15
	((((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with		
25	deflection with detect\$5)) and mirror) and magnet	USPAT; US-PGPUB; IBM_TDB	3/9/04 15
	((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with		
108	deflection with detect\$5)	USPAT; US-PGPUB; IBM_TDB	3/9/04 15
	(((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or	00.7(1, 00 1 01 05, 15.III_155	0,0,0
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with		
QΛ	deflection with detect\$5)) and mirror	USPAT; US-PGPUB; IBM_TDB	3/9/04 15
34	((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or	001 A1, 00-1 01 0B, 1BM_1BB	0/0/04 10
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with		
22	angular with deflection)	USPAT; US-PGPUB; IBM TDB	3/9/04 15
22	((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or	OSPAT, OS-PGPOB, IBM_TDB	3/3/04 13
40.4	(digital adj micro\$4 adj mirror) or DMD or pixel)) and (feedback with	HEDAT: HE DODIE: IDM TOD	3/9/04 15
464	deflection)	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
	("4229081" "4317611" "4580873" "4725127" "5042889" "5216490"		
4.5	"5579148" "5729642" "5808780" "5912608" "5923798"	LICDAT	3/9/04 14
	"5956292" "6005993" "6031947" "6049404").PN.	USPAT	
	6388789.URPN.	USPAT. HE DODUB. IBM TOR	3/9/04 14
	("5912608").PN.	USPAT; US-PGPUB; IBM_TDB	3/9/04 14
	("5629790").PN.	USPAT; US-PGPUB; IBM_TDB	3/9/04 14
	6201629.URPN.	USPAT	3/9/04 13
	("5606447" "5912608").PN.	USPAT	3/9/04 13
0	6122089.URPN.	USPAT	3/9/04 13
	(((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and		
	((electro\$2magnetic adj actuator) same (permanent adj magnet))) and	LIGHT US BORUE IDIA TOD	0/0/04 40
	array	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
	5912608.URPN.	USPAT	3/9/04 13
353	(electro\$2magnetic adj actuator) same (permanent adj magnet)	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
	((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and		
79	((electro\$2magnetic adj actuator) same (permanent adj magnet))	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
	(((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or		
	(345/55,85,108,111)).CCLS.) and (((micro\$2mirror or ((micro adj		
	electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror)		
15	or DMD or pixel)) and (electro\$2magnetic adj actuator))	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
	((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or		
	(digital adj micro\$4 adj mirror) or DMD or pixel)) and		
122	(electro\$2magnetic adj actuator)	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
	(micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or		
	(digital adj micro\$4 adj mirror) or DMD or pixel)	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
4537	electro\$2magnetic adj actuator	USPAT; US-PGPUB; IBM_TDB	3/9/04 13
	("4229732" "4441791" "5172262" "5311360" "5517359" "5610757"	•	
	"5661592" "5748172" "5768009" "5867302" "5926309"		
	"5999303" "6025951" "6028689" "6445502" "2001/0028756"		
	"2002/0031305").PN.	USPAT	3/9/04 11
3	("4421381" "5629790" "5748172").PN.	USPAT	3/9/04 11

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	Asada-Norihiro.in. and mirror		EPO; JPO	3/9/04 11
1	("5748172").PN.		USPAT; US-PGPUB; IBM_TDB EPO; JPO	3/9/04 11 3/9/04 11
66	Asada-Norihiro.in.		EPO; JPO	3/9/04 11
	WO00/50950		USPAT; US-PGPUB; IBM_TDB	3/9/04 11
	WO00/50950		EPO; JPO	3/9/04 11
	((345/111).CCLS.) and mirror 5748172.URPN.		USPAT; US-PGPUB; IBM_TDB	3/9/04 11
	(345/111).CCLS.		USPAT; US-PGPUB; IBM_TDB	3/9/04 11 3/9/04 10
,,,,	(((359/223-226,290-291,295,298,302,315,318,850,871,872,877) o (345/55,85,108,111)).CCLS.) and ((mirror or micro\$2mirror or (mic adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or I	cro		
3964	or pixel))		USPAT; US-PGPUB; IBM_TDB	3/9/04 10
4	("5498312" "5606447" "6295154" "6430332" "2001/0022682" "2002/0018615" "2002/0034024" "2002/0034026" "2002/00703 "2002/0074310" "2002/0075553" "2002/0118429").PN.		USPAT	3/9/04 10
0.15.105	(mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or		WORAT HE BOOM IN THE	0/0/04 40
315435	(digital adj micro\$4 adj mirror) or DMD) (micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
31071	(digital adj micro\$4 adj mirror) or DMD or pixel) with array ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirro	r) or	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
30	(digital adj micro\$4 adj mirror) or DMD) with array) and ((coil or win same magnet)	nding)	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
	(((359/223-226,290-291,295,298,302,315,318,850,871,872,877) o	r	03FA1, 03-FGF0B, IBM_1DB	3/3/04 10
	(345/55,85,108,111)).CCLS.) and ((micro\$2mirror or ((micro adj			
077	electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mi	irror)	LICEAT. HE DODIED, IDM TOD	2/0/04 40
6//	or DMD or pixel) with array) ((coil or winding) same (array near2 magnet)) and ((((359/223-226	.290-	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
	291,295,298,302,315,318,850,871,872,877) or	,200		
	(345/55,85,108,111)).CCLS.) and ((micro\$2mirror or ((micro adj			
0	electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj	rror)	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
U	of Divid of pixel) with array))		03-A1, 03-F GF 0B, 1BM_1DB	3/3/04 10
	((coil or winding) same (array near2 magnet)) and (((micro\$2mirro			
•	((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj mic		LICEAT. LIC DODLID, IDM TOD	2/0/04 40
Ü	adj mirror) or DMD) with array) and ((coil or winding) same magne	())	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
	((((359/223-226,290-291,295,298,302,315,318,850,871,872,877)	or		
	(345/55,85,108,111)).CCLS.) and ((micro\$2mirror or ((micro adj			
21	electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj m or DMD or pixel) with array)) and ((coil or winding) same magnet)	irror)	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
21	or blad or pixely with array), and ((con or winding) same magnety		001 A1, 00-1 01 0B, 1BM_1BB	3/3/04 10
4308	(359/223-226,290-291,295,298,302,315,318,850,871,872,877). CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC		USPAT; US-PGPUB; IBM_TDB	3/9/04 10
1640	(micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror (digital adj micro\$4 adj mirror) or DMD) with array) or	USPAT; US-PGPUB; IBM TDB	3/9/04 10
1640	((359/223-226,290-291,295,298,302,315,318,850,871,872,877) or	•	USPAT, US-PGPUB, IBM_TDB	3/9/04 10
	(345/55,85,108,111)).CCLS.		USPAT; US-PGPUB; IBM_TDB	3/9/04 10
638	(coil or winding) same (array near2 magnet)	or	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
	((coil or winding) same (array near2 magnet)) and ((micro\$2mirror ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro)			
0	adj mirror) or DMD) with array)		USPAT; US-PGPUB; IBM_TDB	3/9/04 10
	((coil or winding) same (array near2 magnet)) and ((micro\$2mirror		·	
1./	((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj mic adj mirror) or DMD or pixel))	:гоֆ4	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
17	and the state of processing			3,3,0,7 10

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((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel)) not (((359/223-226,296,291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)) and ((coil or winding) same (array near2 magnet))) (((coil or winding) same (array near2 magnet)) and ((micro\$2mirror or ((micro adj electr\$4 adj mechanic\$4) with mirror) or (digital adj micro\$4 adj mirror) or DMD or pixel))) not (((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS.) and ((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj	0- USPAT; US-PGPUB; IBM_TDB	3/9/04 10
micro\$4 adj mirror) or DMD)) and ((coil or winding) same (array near2 12 magnet)))	USPAT; US-PGPUB; IBM_TDB	3/9/04 10
((359/223-226,290-291,295,298,302,315,318,850,871,872,877).CCLS. and ((mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD)) and ((coil or winding) same 3 (array near2 magnet))	•	3/9/04 10
(coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial 52 adj light adj modulator) or SLM)) and (array near2 magnets) 1 6144119.URPN. ("3851196" "4555650" "4654571" "5153494" "5196745" "533489210 "5528118" "5623853" "5715037" "5773837").PN.	USPAT; US-PGPUB; IBM_TDB USPAT	3/9/04 10 3/9/04 8 3/9/04 8
(coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial 104 adj light adj modulator) or SLM)) and (inner same outer same frame) ((coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and (inner same outer same	4 USPAT; US-PGPUB; IBM_TDB	3/9/04 8
1 frame)) and (array near2 magnets) (coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$-	USPAT; US-PGPUB; IBM_TDB	3/9/04 8
adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial 115 adj light adj modulator) or SLM)) and gimbal coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4	USPAT; US-PGPUB; IBM_TDB	3/9/04 8
adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial 1658 adj light adj modulator) or SLM) ((coil same magnet same (mirror or micro\$2mirror or (micro adj electr\$4 adj mechanic\$4) or (digital adj micro\$4 adj mirror) or DMD or (spatial adj light adj modulator) or SLM)) and gimbal) and (array with	USPAT; US-PGPUB; IBM_TDB	3/9/04 8
(spatial adj light adj modulator) or SLM)) and gimbal) and (array with 8 magnets)	USPAT; US-PGPUB; IBM_TDB	3/9/04 8